

**THE EFFECT OF *EPIGALLOCATECHIN GALLATE* (EGCG) ON THE  
DIAMETER OF SECOND DEGREE BURN WOUND  
MALE ALBINO RAT (*Rattus norvegicus*)**

Ganang Pudyastungkara

**ABSTRACT**

The aim of this research was to determine the effect of EGCG on the diameter of burn wound in male albino rat. P0, P1, P2, P3, P4 group with second degree skin burn and treated with *silver sulfadiazine*, 1% EGCG, 2% EGCG, 4% EGCG respectively. First group (P0) was applied with burn wound then treated with *vehikulum*, second group (P1) was applied with burn wound then treated with *silver sulfadiazine*, third group (P2) was applied with burn wound then treated with 1% EGCG, fourth group (P3) was applied with burn wound then treated with 2% EGCG and fifth group (P4) was applied with burn wound then treated with 4% EGCG. After that, observed and measured the diameter of burn wound on day 0, 7 and 14. EGCG ointment was not significantly affected the diameter of burn wound. Time was significantly affected the diameter of burn wound. However, EGCG and time were not significantly affected the diameter of burn wound.

**Keywords :** EGCG, burn wound, the diameter of burn wound